
Falls

Definition: Respondents ages 45 and older who answered yes to the question “were you injured in a fall; by injured we mean the fall caused you to limit your regular activities for at least a day or to go see a doctor?”

Prevalence of Injured in a Fall

- South Dakota 4.8%
- There is no nationwide median for injured in a fall

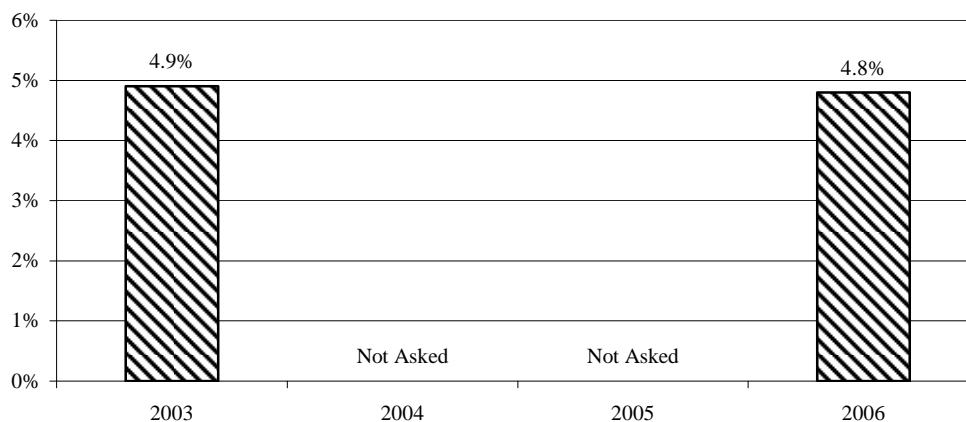
Healthy People 2010 Objective

There was no stated Healthy People 2010 Objective for being injured in a fall.

Trend Analysis

This question was asked in 2003 and 2006. The percent of respondents who were injured in a fall decreased slightly from 4.9 percent in 2003 to 4.8 percent in 2006.

Figure 76
Percent of Respondents, Ages 45 and Older, Who Were Injured in a Fall,
2003 and 2006



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2003 and 2006

Demographics

Gender	There is no significant gender difference observed from the available data.
Age	There doesn't seem to be a strong trend regarding the incidence of being injured in a fall as age increases.
Race	American Indians demonstrate a significantly higher incidence of being injured in a fall than whites.
Region	The American Indian counties region shows a very high incidence of being injured in a fall, while those in the southeast, northeast, and central exhibit a very low incidence.

Household Income	The incidence of being injured in a fall seems to generally decrease as household income increases. This association is much more evident in females.
Education	Overall, as education levels increase the incidence of being injured in a fall doesn't seem to follow a pattern. However, females in the lower education levels do demonstrate a higher incidence of falls than those in the higher education levels.
Employment Status	Those who are unable to work exhibit a very high incidence of falls, while those who are employed for wages, self-employed, a homemaker, or retired show a very low incidence.
Marital Status	Those who are divorced or separated demonstrate a very high incidence of being injured in a fall, while those who are married show a very low prevalence. This difference is much more evident in females than males.

Table 94
Respondents, Ages 45 and Older, Who Were Injured in a Fall, 2006

	Total			Male			Female		
	# Resp.	%	95% CI	# Resp.	%	95% CI	# Resp.	%	95% CI
Total	4,510	4.8	(4.1-5.6)	1,729	4.3	(3.3-5.6)	2,781	5.2	(4.4-6.3)
Age									
18-24	-	-	-	-	-	-	-	-	-
25-34	-	-	-	-	-	-	-	-	-
35-44	-	-	-	-	-	-	-	-	-
45-54	1,379	4.6	(3.5-6.0)	572	4.3	(2.7-6.7)	807	4.9	(3.5-6.7)
55-64	1,142	5.6	(4.2-7.4)	483	4.6	(2.7-7.6)	659	6.7	(4.8-9.3)
65-74	929	3.5	(2.3-5.3)	353	2.9	(1.5-5.5)	576	4.1	(2.4-6.9)
75+	994	5.7	(4.2-7.6)	299	5.8	(3.3-10.0)	695	5.6	(4.1-7.7)
Race									
White	4,140	4.5	(3.8-5.3)	1,584	4.0	(3.0-5.4)	2,556	4.9	(4.0-5.9)
American Indian	265	12.6	(8.1-19.0)	*	*	*	*	*	*
Region									
Southeast	985	4.2	(3.1-5.7)	370	3.3	(1.8-5.8)	615	5.0	(3.5-7.1)
Northeast	1,148	4.6	(3.3-6.3)	415	5.2	(3.0-8.7)	733	4.1	(2.9-5.9)
Central	978	4.6	(3.4-6.1)	372	3.1	(1.8-5.4)	606	5.8	(4.2-8.1)
West	1,001	5.3	(3.9-7.1)	406	5.0	(3.0-8.2)	595	5.5	(3.8-7.9)
American Indian Counties	398	10.2	(7.1-14.6)	166	8.5	(4.7-14.9)	232	11.8	(7.4-18.4)
Household Income									
Less than \$10,000	215	10.5	(6.7-16.1)	*	*	*	*	*	*
\$10,000-\$14,999	306	8.1	(5.3-12.1)	*	*	*	*	*	*
\$15,000-\$19,999	367	4.8	(3.0-7.6)	102	2.8	(1.1-7.2)	265	5.8	(3.4-9.7)
\$20,000-\$24,999	409	8.4	(5.3-13.1)	148	9.0	(4.2-18.3)	261	7.9	(4.6-13.4)
\$25,000-\$34,999	598	5.5	(3.8-8.0)	250	6.5	(3.8-11.1)	348	4.5	(2.8-7.1)
\$35,000-\$49,999	745	4.0	(2.6-6.1)	335	4.0	(2.1-7.6)	410	3.9	(2.3-6.8)
\$50,000-\$74,999	612	3.4	(2.0-5.5)	308	2.6	(1.1-6.1)	304	4.3	(2.5-7.5)
\$75,000+	562	2.9	(1.6-5.0)	296	3.3	(1.6-6.7)	266	2.2	(1.0-5.1)
Education									
8th Grade or Less	260	6.5	(4.0-10.4)	115	4.3	(1.7-10.4)	145	9.1	(5.3-15.4)
Some High School	229	8.6	(5.1-14.3)	*	*	*	*	*	*
High School or G.E.D.	1,559	4.5	(3.4-5.9)	581	3.2	(1.8-5.5)	978	5.5	(4.0-7.5)
Some Post-High School	1,236	4.6	(3.5-6.1)	427	3.4	(1.9-5.9)	809	5.6	(4.1-7.6)
College Graduate	1,216	4.5	(3.2-6.2)	519	5.9	(3.8-8.9)	697	3.0	(1.9-4.6)
Employment Status									
Employed for Wages	1,750	3.8	(2.8-5.0)	623	3.9	(2.4-6.3)	1,127	3.6	(2.6-5.0)
Self-employed	649	3.8	(2.4-5.9)	440	3.3	(1.8-5.8)	209	5.3	(2.8-10.0)
Unemployed	*	*	*	*	*	*	*	*	*
Homemaker	265	7.0	(4.0-11.9)	*	*	*	*	*	*
Retired	1,517	4.1	(3.1-5.4)	536	3.8	(2.3-6.3)	981	4.4	(3.3-6.0)
Unable to Work	220	17.9	(12.5-25.1)	*	*	*	*	*	*

Table 94 (continued)
Respondents, Ages 45 and Older, Who Were Injured in a Fall, 2006

	Total			Male			Female		
	# Resp.	%	95% CI	# Resp.	%	95% CI	# Resp.	%	95% CI
Marital Status									
Married/Unmarried Couple	2,584	4.1	(3.3-5.1)	1,158	4.0	(2.9-5.6)	1,426	4.1	(3.1-5.4)
Divorced/Separated	641	7.5	(5.2-10.6)	263	6.0	(3.0-11.6)	378	8.7	(5.8-12.8)
Widowed	994	6.4	(4.9-8.5)	149	5.6	(2.7-11.1)	845	6.6	(4.9-8.9)
Never Married	277	5.3	(3.2-8.6)	153	4.0	(1.8-8.6)	124	7.2	(3.7-13.3)

Note: *Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2006

Further Analysis

Following are data illustrating the percent of those who have been injured in a fall for various health behaviors and conditions. For example, 12.1 percent of respondents who stated they have asthma have been injured in a fall, while 4.2 percent of respondents who have never had asthma have been injured in a fall.

Table 95
Injured in a Fall, Ages 45 and Older, for Selected Health Behaviors and Conditions, 2006

Health Behavior or Condition	# Respondents	% Injured in a Fall	95% CI
Obese (BMI = 30.0+)	1,137	7.5	5.9-9.6
Overweight (BMI = 25.0-29.9)	1,730	3.8	2.9-4.9
Recommended Weight (BMI = 18.5-24.9)	1,327	3.5	2.5-4.7
No Leisure Time Physical Activity	1,305	6.5	5.1-8.2
Leisure Time Physical Activity	3,200	4.1	3.4-5.1
Not Heard of "Healthy South Dakota" Program	2,617	4.7	3.8-5.7
Heard of "Healthy South Dakota" Program	1,731	5.0	3.9-6.4
Current Smoker	761	7.3	5.4-9.9
Former Smoker	1,468	4.8	3.7-6.3
Never Smoked	2,271	4.0	3.1-5.0
Smokeless Tobacco Use	138	7.8	3.4-16.9
No Smokeless Tobacco Use	4,302	4.7	4.0-5.5
Diabetes	530	8.0	5.7-11.1
No Diabetes	3,978	4.4	3.7-5.2
Current Asthma	305	12.1	8.1-17.7
Former Asthma	*	*	*
Never Had Asthma	4,085	4.2	3.5-5.0
No Mammogram within Past Two Years (40+)	632	7.6	5.5-10.3
Mammogram within Past Two Years (40+)	2,073	4.7	3.7-5.8
No Clinical Breast Exam within Past Two Years	635	6.5	4.7-8.9
Clinical Breast Exam within Past Two Years	2,101	5.0	4.0-6.1
No Pap Smear within the Past Three Years	402	6.5	4.3-9.6
Pap Smear within the Past Three Years	1,353	4.4	3.4-5.8
No PSA Test within the Past Two Years (40+)	621	5.4	3.5-8.3
PSA Test within the Past Two Years (40+)	1,021	3.6	2.5-5.1
No Digital Rectal Exam within the Past Two Years (40+)	687	5.6	3.8-8.2
Digital Rectal Exam within the Past Two Years (40+)	1,011	3.5	2.4-5.1
Prostate Cancer (40+)	101	3.4	0.8-12.9
No Prostate Cancer (40+)	1,615	4.4	3.3-5.8
No Blood Stool Test within the Past Two Years (50+)	2,791	5.2	4.3-6.2
Blood Stool Test within the Past Two Years (50+)	867	4.0	2.7-5.9
Never Had a Sigmoidoscopy or Colonoscopy (50+)	1,633	5.1	4.0-6.6
Ever Had a Sigmoidoscopy or Colonoscopy (50+)	2,065	4.8	3.8-5.9

Table 95 (continued)			
Injured in a Fall, Ages 45 and Older, for Selected Health Behaviors and Conditions, 2006			
Health Behavior or Condition	# Respondents	% Injured in a Fall	95% CI
Diagnosed with Cancer in the Past 12 Months	137	3.4	1.2-9.2
Not Diagnosed with Cancer in the Past 12 Months	4,271	4.8	4.1-5.6
Drank Alcohol in Past 30 Days	2,085	3.9	3.0-5.0
No Alcohol in Past 30 Days	2,414	5.7	4.7-7.0
Binge Drinker	362	5.4	3.2-8.9
Not a Binge Drinker	4,036	4.8	4.1-5.6
Heavy Drinker	117	2.9	0.9-8.6
Not a Heavy Drinker	4,279	4.8	4.1-5.7
No Health Insurance (18-64)	211	9.2	5.2-15.5
Health Insurance (18-64)	2,269	4.6	3.7-5.7
Employer Based Health Insurance Coverage (18-64)	1,499	3.7	2.7-5.0
Private Health Insurance Plan (18-64)	361	2.2	1.0-4.7
Medicare (18-64)	102	14.8	8.3-24.8
Medicaid or Medical Assistance (18-64)	*	*	*
The Military, CHAMPUS, TriCare, or the VA (18-64)	114	7.5	3.0-17.3
The Indian Health Service (18-64)	106	9.4	4.7-17.8
No Flu Shot (65+)	512	3.4	2.1-5.5
Flu Shot (65+)	1,406	5.1	3.9-6.7
No Pneumonia Shot (65+)	639	3.2	2.1-4.9
Pneumonia Shot (65+)	1,222	5.6	4.2-7.4
Haven't Been to the Dentist in the Past Year	1,477	6.0	4.7-7.7
Been to the Dentist in the Past Year	3,016	4.2	3.5-5.2
Not Taking any Precautions Against West Nile Virus	2,011	5.1	4.0-6.3
Taking Precautions Against West Nile Virus	2,395	4.6	3.7-5.6
Sometimes/Seldom/Never Wear Seat Belt	724	5.3	3.8-7.3
Always/Almost Always Wear Seat Belt	3,775	4.7	3.9-5.6
Previously Had a Heart Attack	427	8.7	6.0-12.6
Never Had a Heart Attack	4,061	4.4	3.7-5.2
Have Angina or Coronary Heart Disease	366	9.3	6.3-13.5
Do Not have Angina or Coronary Heart Disease	4,097	4.3	3.7-5.1
Previously Had a Stroke	229	12.1	7.7-18.5
Never Had a Stroke	4,276	4.5	3.8-5.3
Fair or Poor Health Status	840	9.7	7.5-12.4
Excellent, Very Good, or Good Health Status	3,655	3.8	3.2-4.6
Physical Health Not Good for 30 Days of the Past 30	365	10.7	7.5-14.9
Physical Health Not Good for 0-29 Days of the Past 30	4,040	4.2	3.6-5.1
Mental Health Not Good for 20-30 Days of the Past 30	241	13.2	8.7-19.6
Mental Health Not Good for 0-19 Days of the Past 30	4,194	4.3	3.6-5.1
Usual Activities Unattainable for 10-30 Days of the Past 30	344	16.7	12.4-22.1
Usual Activities Unattainable for 0-9 Days of the Past 30	4,115	3.8	3.2-4.6
Dissatisfied / Very Dissatisfied with Life	173	13.3	8.5-20.3
Satisfied / Very Satisfied with Life	4,257	4.5	3.8-5.3
Physical, Mental, or Emotional Disability	1,278	11.0	9.0-13.2
No Physical, Mental, or Emotional Disability	3,215	2.4	1.9-3.1
Disability with Special Equipment Needed	483	13.8	10.5-18.0
No Disability with Special Equipment Needed	4,024	3.8	3.2-4.6
Never Been Tested for HIV (18-64)	2,146	4.8	3.9-6.0
Been Tested for HIV (18-64)	323	6.6	4.1-10.3
Military Veteran	824	4.2	2.9-6.1
Not a Military Veteran	3,681	5.0	4.2-5.9

Note: *Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2006